Blue Chip Technology

Single Board Computer

WILDCAT

WILDCAT

- Pentium® III, Coppermine and Celeron™ processors
- 66/100MHz FSB
- Socket 370
- Intel 440BX AGPset
- Up to 512MB SDRAM
- 0-288MB Flash options (DiskOnChip)
- Chips & Technologies 69030 PCI SVGA LCD and CRT contoller
- 4MB of Video memory
- CRT and LCD resolutions: 1280x1024x256, 1024x768x64K, 800x600x16M, 640x480x16M
- 36bit LCD support
- Zoom video input
- Adaptec 7890 Ultra 2 wide SCSI supporting LVDS
- 100/10Base-T ethernet controller
- PICMG compliant
- 3/4 length card: 250mmx123mm

Pentium® III based Single Board Computer with CRT/LCD, Ultra 2 Wide SCSI and Ethernet

WILDCAT is based on an innovative card form factor, enabling a highly integrated Pentium® III PICMG compliant SBC to be used in embedded applications where normal full size PICMG cards are just too big. Despite being only a 3/4 length card, WILDCAT includes on-board CRT/LCD, Ultra 2 Wide SCSI, Ethernet and a host of other functions.

Designed for operation in passive backplane systems, WILDCAT is based on the high performance Intel 440BX Chip Set with a 66/100MHz front side bus, and supports Pentium® III processors in a PPGA370 socket. Up to 512MB of SDRAM and 288MB of Flash is supported.

The C&T 69030 video controller intergrates 4MB of video memory and supports both CRT and LCD displays, simultaneously if required. WILDCAT supports LCD and CRT resolutions up to 1280x1024x256 and a wide range of LCD panels up to 36 bits.

The optional Ultra 2 wide SCSI, which is based on the Adaptec 7890, supports LVDS and provides data transfer rates up to 80MB/Sec.

Built-in power management features help to manage the power consumption and improve reliability. WILDCAT supports 100/10Base-T Ethernet, up to four EIDE devices and dual USB ports. Standard ISA bus peripherals such as PS/2 Mouse/Keyboard controller, dual floppy, RS232 Serial ports (IrDA option on COM2) and one SPP/ECP/EPP bi-directional parallel port are also integrated onboard.

Also available without SCSI and Video

BS EN ISO 9001
Certificate No 33069

3 YEAR WARRANTY

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Single Board Computer

WILDCAT

Pentium® III based Single Board Computer with CRT/LCD, Ultra 2 Wide SCSI and Ethernet

TECHNICAL SPECIFICATION

PROCESSORS SUPPORTED & SPEED
Pentium® III, Coppermine and Celeron™ processors
66 and 100MHz host bus frequencies
Socket 370

MAIN CHIP SET
Intel 440BX AGPset

DRAM
Up to 512MB SDRAM via 2, 168 pin DIMMS
ECC Parity supported
SDRAM supported on 66/100MHz host bus
Memory interface support for 3V3 SDRAM

CACHE (L2)
Cache as per CPU

FLASH
M-Systems DiskOnChip
0-288MB options

BIOS
Phoenix system BIOS
Custom extensions
Chips and Technologies Video BIOS
Located in a 256K ROM

VIDEO
SVGA Video output
Chips & Tech 69030
4MB of Video memory
CRT and LCD resolutions: 1280x1024x256, 1024x768x64K, 800x600x16M, 640x480x16M
36bit LCD support via 2mm pitch header
Zoom video input

ULTRA 2 WIDE SCSI (LVDS)
Adaptec 7890 Ultra 2 Wide SCSI supporting LVDS
Up to 80MB/Sec data transfer rate
8/16 bit Ultra SCSI interface
SCSI BIOS held in System BIOS ROM
68 Way SCSI II connector
On-board active termination

ETHERNET
100/10Base-T controller
UTP interface with auto-negotiation
Remote Boot ROM option (in system BIOS ROM)

HARD DISK
Fixed Disk Controller for dual EIDE HDD interfaces (4 devices)
Supports PIO mode 4 and Bus Master transfers up to 22MB/Sec
Supports Ultra DMA33
Synchronous DMA transfers up to 33MB/Sec

FLOPPY DISK
Floppy Disk Controller for up to 2 FDD to 2.88MB

ISA BUS
ISA edge connector interface
Fully buffered drive for up to 20 ISA slots

PCI BUS
PCI Local Bus Interface Ver 2.1
Support for up to 4 PCI slots
PICMG (Ver 2.0) compliant

REAL TIME CLOCK
Battery backed via on-board lithium cell

SERIAL PORTS
2xRS232 (IrDA option on COM2)

PARALLEL PORTS
1 x enhanced bi-directional SPP/ECP/EPP

USB
2 x USB via header
Serial transfer rates up to 12 and 1.5Mbit/Sec

WATCHDOG
Software disabled/enabled
Refresh period 0.5 sec

ALARM FUNCTIONS
LM79 system monitor
Detects voltage excursions on supply rails
Detects fan failure for up to 2 fans
System temperature monitoring

KEYBOARD PORT
Standard AT/PS/2 PC compatible
6 pin PS/2 connector on rear panel

MOUSE PORT
PS/2 Mouse via panel using splitter or utilities header

PERIPHERALS HEADER
Reset, Speaker, IDE, Power LEDs etc

BATTERY
On-board 3.7 Volt field replaceable Lithium battery
Supports Real Time Clock and CMOS RAM
External battery INPUT provided
Diode protected automatic switching

BOARD DIMENSIONS
3/4 length card: 250mmx123mm

MOUNTING
Via passive back planes

ENVIRONMENTAL
0°C to 60°C Operational temp
-25°C to 85°C Storage temp
Non-condensing Relative Humidity 10% to 90%

POWER MANAGEMENT
BIOS provides APM

SUPPLY VOLTAGE
+5 and +12 Volts for panels and fan connector
Pentium core generated via DC/DC converter
All required voltages generated on-board

EMC
Compliant with EN55022 and EN50082

OPERATING SYSTEMS
MS-DOS
Windows 95/98/NT

WARRANTY
3 years

ACCESSORIES
WILDCAT hard copy User Manual

WILDCAT cable kit: *includes cables for Utilities, HDD, FDD, Serial, Parallel, USB*

WILDCAT LCD Solution: *includes cable assembly and BIOS upgrade (Please call for details of panels supported and part numbers)*

OPTIONS
WILDCAT *without SCSI and without VIDEO (Ethernet on-board)*

WILDCAT *without SCSI (Video and Ethernet on-board)*

Passive Backplanes: please call for details

ORDER GUIDE
Please call or refer to our price list for detailed ordering information.

CE

YEAR 2000 Compliance

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